

Founded in 1852
by Sidney Davy Miller



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06 24 03 J602 Rec'd PC TC 23 JUN 2005

June 23, 2005

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**Re: Inventors: Wen-Cherng Lee; Lihong Sun; Feng Shan; Claudio
Chuaqui; Zhongli Zheng; and Russell C. Petter
Express Mail No.: ER 308918450 US
Our Reference No.: 124269/00073
Application No.: 10/510,459
Title: TRI-SUBSTITUTED HETEROARYLS AND METHODS OF
MAKING AND USING THE SAME**

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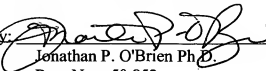
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- 1) Transmittal Form (PTO/SB/21);
- 2) Information Disclosure Statement by Applicant (PTO/SB/08A/08B) (13 sheets)
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By: 
Jonathan P. O'Brien Ph.D.
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ER 308918450 US

PTO/SB/21 (09-04)

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	Application Number	10/510,459
	Filing Date	October 4, 2004
	First Named Inventor	Wen-Cherng Lee
	Art Unit	
	Examiner Name	
Total Number of Pages in This Submission		Attorney Docket Number 124269/00073

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Miller, Canfield, Paddock and Stone		
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Printed name	JONATHAN P. O'BRIEN		
Date	June 23, 2005	Reg. No.	50,852

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Sheet	1	of	13
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Complete if Known

Application Number	10/510,459
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First Named Inventor	Wen-Cheng Lee
Art Unit	
Examiner Name	
Attorney Docket Number	124269/00006/00073

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patented or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US 3940486	02-24-1976	Fitzl, Konrad	
		US 4302464	11-24-1981	LaMattina, John L., et al.	
		US 5514505	05-07-1996	Limburg, William W., et al.	
		US 5593991	01-14-1997	Adams, Jerry L., et al.	
		US 5593992	01-14-1997	Adams, Jerry L., et al.	
		US 5604240	02-18-1997	Chambers, Mark S., et al.	
		US 5656644	08-12-1997	Adams, Jerry LeRoy, et al.	
		US 5658903	08-19-1997	Adams, Jerry LeRoy, et al.	
		US 5663334	09-02-1997	Sheldrake, Peter William, et a	
		US 5670527	09-23-1997	Adams, Jerry Leroy, et al.	
		US 5686455	11-11-1997	Adams, Jerry Leroy, et al.	
		US 5716955	02-10-1998	Adams, Jerry L., et al.	
		US 5717100	02-10-1998	Selnick, Harold G., et al.	
		US 5739143	04-14-1998	Adams, Jerry Leroy, et al.	
		US 5756499	05-26-1998	Adams, Jerry L, et al.	
		US 5792778	08-11-1998	De Laszlo, Stephen E, et al.	

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Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patented or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code* Number* Kind Code* #				
		WO 9216527	10-01-1992	Kasahara, Isamu, et al.		
		WO 9502591	01-26-1995	Adams, Jerry Leroy, et al.		
		WO 9503297	02-02-1995	Adams, Jerry Leroy, et al.		
		WO 9618626	06-20-1996	Harmon, Charles Stanford, et		
		WO 9621452	07-18-1996	Adams, Jerry Leroy, et al.		
		WO 9640143	12-19-1996	Adams, Jerry Leroy, et al.		
Examiner Signature	/Charanjit Aulakh/			Date Considered	05/06/2008	

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First Named Inventor	Wen-Cherng Lee
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Attorney Docket Number	124269/00006/00073

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U.S. PATENT DOCUMENTS

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		Number-Kind Code* (if known)			
		US 5811549	09-22-1998	Adams, Jerry L, et al.	
		US 5837719	11-17-1998	De Laszlo, Stephen E, et al.	
		US 5854264	12-29-1998	Anthony, Neville J, et al.	
		US 5854265	12-29-1998	Anthony, Neville J, et al.	
		US 5854276	12-29-1998	Okudaira, Terumi, et al.	
		US 5859041	01-12-1999	Liverton, Nigel J, et al.	
		US 5864036	01-26-1999	Adams, Jerry L, et al.	
		US 5869660	02-09-1999	Adams, Jerry Leroy, et al.	
		US 5872136	02-16-1999	Anthony, Neville J, et al.	
		US 5880140	03-09-1999	Anthony, Neville J, et al.	
		US 5883105	03-16-1999	Anthony, Neville J, et al.	
		US 5916891	06-29-1999	Adams, Jerry Leroy, et al.	
		US 5917043	06-29-1999	Sisco, Joseph, et al.	
		US 5932576	08-03-1999	Anantanarayan, Ashok, et al.	
		US 5939439	08-17-1999	Anthony, Neville J, et al.	
		US 5939557	08-17-1999	Anthony, Neville J, et al.	

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Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patented or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1*
		Country Code* Number* Kind Code* (if known)				
		WO 9716426	05-09-1977	DeLaszlo, Stephen E. et al.		
		WO 9716441	05-09-1997	DeLaszlo, Stephen E. et al.		
		WO 9723479	07-03-1997	Sisco, Joseph, et al.		
		WO 9725046	07-17-1997	Adams, Jerry L, et al.		
		WO 9736582	10-09-1997	Heil, Markus, et al.		

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Art Unit	
Examiner Name	
Attorney Docket Number	124269/00006/00073

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U.S. PATENT DOCUMENTS

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		Number-Kind Code* (if known)			
		US 5965583	10-12-1999	Beers, Scott A., et al.	
		US 5969184	10-19-1999	Adams, Jerry Leroy, et al.	
		US 5977103	11-02-1999	Adams, Jerry Leroy, et al.	
		US 5998425	12-07-1999	Adams, Jerry Leroy, et al.	
		US 6040320	02-21-2000	Beers, Scott A, et al.	
		US 6046208	04-04-2000	Adams, Jerry L, et al.	
		US 6051574	04-18-2000	Anthony, Neville J, et al.	
		US 6077853	06-20-2000	Graham, Samuel L, et al.	
		US 6080870	06-27-2000	Anthony, Neville J, et al.	
		US 6083949	07-04-2000	Liverton, Nigel J, et al.	
		US 6087381	07-11-2000	Hanson, Gunnar J, et al.	
		US 6096739	08-01-2000	Feuerstein, Giora Z, et al.	
		US 6096748	08-01-2000	Gallagher, Timothy F, et al.	
		US 6100399	08-08-2000	Sisco, Joseph, et al.	
		US 6103936	08-15-2000	Adams, Jerry Leroy, et al.	
		US 6136828	10-24-2000	Elliott, John Duncan, et al.	

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Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patented or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1*
		Country Code* Number* Kind Code* (if known)				
		WO 9825619	06-18-1998	Adams, Jerry L, et al.		
		WO 9857966	12-23-1998	Adams, Jerry L, et al.		
		WO 9903480	01-28-1999	Thiemermann, Christopher, et		
		WO 9918942	04-22-1999	Alvi, Samir Ahmed, et al.		
		WO 9958128	11-18-1999	Cohen, Philip, et al.		
		WO 9961437	12-02-1999	Adams, Jerry Leroy, et al.		

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Date Considered

05/06/2008

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		Number-Kind Code* (if known)			
		US 6150557	11-21-2000	Adams, Jerry Leroy, et al.	
		US 6180643	01-30-2001	Zablocki, Jeffery A, et al.	
		US 6214844	04-10-2001	Adams, Jerry L, et al.	
		US 6218537	04-17-2001	Adams, Jerry Leroy, et al.	
		US 6222036	04-24-2001	Peng, Zhi-Qiang, et al.	
		US 6235760	05-22-2001	Feuerstein, Giora Z, et al.	
		US 6239279	05-29-2001	Sisko, Joseph, et al.	
		US 6255491	07-03-2001	Sisko, Joseph, et al.	
		US 6268370	07-31-2001	Adams, Jerry Leroy, et al.	
		US 6288089	09-11-2001	Zawada, Michael, et al.	
		US 6300347	10-09-2001	Revesz, Laszlo, et al.	
		US 6335336	01-01-2002	Anantanarayan, Ashok, et al.	
		US 6335340	01-01-2002	Gallagher, Timothy Francis,	
		US 6369068	04-09-2002	Adams, Jerry Leroy, et al.	
		US 6372741	04-16-2002	Jackson, Jeffrey R, et al.	
		US 6387898	05-14-2002	Feuerstein, Giora Z, et al.	
		US 6399644	06-04-2004	Wexler, Ruth R, et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code* Number* Kind Code* <i>or</i>				
		WO 0001688	01-13-2000	Kimura, Tomio, et al.		
		WO 0023444	04-27-2000	Bhagwat, Shripad S, et al.		
		WO 0026209	05-11-2000	Revesz, Laszlo, et al.		
		WO 0122965	04-05-2001	Claiborne, Christopher F, et		
		WO 0137835	05-31-2001	Adams, Jerry L, et al.		

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		Number-Kind Code ² (if known)			
		US 6410729	06-25-2002	Spohr, Ulrike D, et al.	
		US 6420385	07-16-2002	Spohr, Ulrike D, et al.	
		US 6423713	07-23-2002	Anantanarayan, Ashok, et al.	
		US 6440973	08-27-2002	Zablocki, Jeffery A, et al.	
		US 6465493	10-15-2002	Burgess, Joelle L, et al.	
		US 6503930	01-07-2003	Hanson, Gunnar J, et al.	
		US 6511997	01-28-2003	Minami, Nobuyoshi, et al.	
		US 6514977	02-04-2003	Anantanarayan, Ashok, et al.	
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		US 6528512	03-04-2003	Gallagher, Timothy F, et al.	
		US 6548503	04-15-2003	Adams, Jerry L, et al.	
		US 6562832	05-13-2003	Adams, Jerry L, et al.	
		US 6579873	06-17-2003	Anantanarayan, Ashok, et al.	
		US 6579874	06-17-2003	Revesz, Laszlo, et al.	
		US 6599910	07-29-2003	Adams, Jerry L, et al.	
		US 6599926	07-29-2003	Pinto, Donald J.P, et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ <i>or</i> Inventor				
		WO 0138324	05-31-2001	Dean, David Kenneth, et al.		
		WO 0200651	01-03-2002	Quan, Mimi L, et al.		
		WO 02055077	07-18-2002	Gaster, Laramie Mary, et al.		
		WO 02062793	08-15-2002	Gellibert, Francoise, Jeanne		
		WO 02087591	11-07-2002	Pinzani, Massimo, et al.		
		WO 02088107	11-07-2002	Yoshida, Ichiro, et al.		

Examiner Signature	/Charanjit Aulakh/	Date Considered	05/06/2008
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Application Number	10/510,459		
Filing Date	October 4, 2004		
First Named Inventor	Wen-Cherng Lee		
Art Unit			
Examiner Name			
Attorney Docket Number	124269/00006/00073		

Sheet 6 of 13

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Document Number	Publication Date MM-DD-YYYY	Name of Patented or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code* (if known)			
		US 6602877	08-05-2003	Bamborough, Paul L, et al.	
		US 6605634	08-12-2003	Zablocki, Jeffery A, et al.	
		US 6610688	08-26-2003	Liang, Congxin, et al.	
		US 6610698	08-26-2003	Spohr, Ulrike D, et al.	
		US 6617324	09-09-2003	Naraian, Ashok S, et al.	
		US 6630325	10-07-2003	Lindner, Volkhard, et al.	
		US 6645989	11-11-2003	Adams, Jerry Leroy, et al.	
		US 6649604	11-18-2003	Spohr, Ulrike D, et al.	
		US 6667325	12-23-2003	Minami, Nobuyoshi, et al.	
		US 6689770	02-10-2004	Wexler, Ruth R, et al.	
		US 6727364	04-27-2004	Tullis, Joshua Spector, et al.	
		US 6730683	05-04-2004	Gallagher, Timothy Francis,	
		US 6774127	08-10-2004	Adams, Jerry L, et al.	
		US 6787555	09-07-2004	Tullis, Joshua Spector, et al.	
		US 6852740	02-08-2005	Hanson, Gunnar J, et al.	
		US 6861417	03-01-2005	Adams, Jerry L, et al.	

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Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patented or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†*
		Country Code* Number* Kind Code* or Serial				
		WO 02092593	11-21-2002	Minami, Nobuyoshi, et al.		
		WO 03015781	02-27-2003	Fujiwara, Toshihiko, et al.		
		WO 03087304	10-23-2003	Lee, Wen-Cherng, et al.		
		WO 03091226	11-06-2003	Amegadzie, Albert Kudzovi,		
		WO 04005282	01-15-2004	Furet, Pascal, et al.		
		WO 04013125	02-12-2004	Gellibert, Francoise, Jeanne		

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Art Unit	
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		Number-Kind Code ¹ of document			
		US 20020032183	03-14-2002	LoGrasso, Philip, et al.	
		US 20020049220	04-25-2002	Revesz, Laszlo, et al.	
		US 20020086869	07-04-2002	Anantanarayan, Ashok, et al.	
		US 20020103202	08-01-2002	Pinto, Donald J.P., et al.	
		US 20020123500	09-05-2002	Jackson, Jeffrey R., et al.	
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		US 20020198206	12-26-2002	Gallagher, Timothy Francis,	
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		US 20030100558	05-29-2003	Tullis, Joshua Spector, et al.	
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		US 20030114452	06-19-2003	Adams, Jerry L., et al.	

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		Country Code ² Number ³ Kind Code ⁴ of document				
		WO 04013135	02-12-2004	Dodic, Nerina, et al.		
		WO 04013138	02-12-2004	Dodic, Nerina, et al.		
		WO 04016606	02-26-2004	Gellibert, Francoise Jeanne		
		WO 04026307	04-01-2004	Blumberg, Laura Cook, et al.		
		WO 04029043	04-08-2004	Hagihara, Masahiko, et al.		
		WO 04048382	06-10-2004	Beight, Douglas, Wade, et al.		

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First Named Inventor	Wen-Cherng Lee
Art Unit	
Examiner Name	
Attorney Docket Number	124269/00006/00073

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		US 20030144529	07-31-2003	Hanson, Gunnar J, et al.	
		US 20030149277	08-07-2003	Gaster, Laramie Mary, et al.	
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		US 20030166633	09-04-2003	Gaster, Laramie Mary, et al.	
		US 20030191116	10-09-2003	Kalindjian, Sarkis Barret, et al.	
		US 20030229110	12-11-2003	Adams, Jerry L, et al.	
		US 20040014776	01-22-2004	Breault, Gloria Anne, et al.	
		US 20040014973	01-22-2004	Adams, Jerry L, et al.	
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		US 20040053924	03-18-2004	Liang, Congxin, et al.	
		US 20040053942	03-18-2004	Alberti, Michael John, et al.	
		US 20040053943	03-18-2004	Adams, Jerry L, et al.	
		US 20040063176	04-01-2004	Lindner, Volkhard, et al.	
		US 20040063745	04-01-2004	Gelibert, Francoise Jeanne,	

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		WO 04065392	08-05-2004	Dodic, Nerina, et al.		
		WO 04111036	12-23-2004	Dodic, Nerina, et al.		
		WO 04111046	12-23-2004	Dodic, Nerina, et al.		
		DE 3029376	03-18-1982	Vorbrüggen, Helmut		
		EP 0809499	12-03-1997	Adams, Jerry Leroy, et al.		

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		US 20040063949	04-01-2004	Gellibert, Francoise Jeanne,	
		US 20040077687	04-22-2004	Gellibert, Francoise Jeanne	
		US 20040087623	05-06-2004	Gellibert, Francoise Jeanne,	
		US 20040087628	05-06-2004	Minami, Nobuyoshi, et al.	
		US 20040097502	05-20-2004	Gellibert, Francoise Jeanne	
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		US 20040110797	06-10-2004	Munchhof, Michael J, et al.	
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		US 20040176433	09-09-2004	Naraan, Ashok S. et al.	
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		US 20040220230	11-04-2004	Gaster, Laramie Mary, et al.	
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		Country Code* Number* Kind Code* or Serial				
		GB 2306108	04-30-1997	Claremon, David Alan, et al.		
		JP 01181187	07-19-1989	Nakamata, Yoshiaki, et al.		
		JP 02114784	04-26-1990	Vreeswijk, Franciscus W.P, et		
		JP 02216969	08-29-1990	Takabayashi, Kimiko, et al.		
		JP 08183787	07-16-1996	Kai Yasunobu, et al.		

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Attorney Docket Number	124269/00006/00073

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		ALEXANDROW, Mark G., and MOSES, Harold L., "Transforming Growth Factor β and Cell Cycle Regulation," <i>Cancer Research</i> , 55: 1452-1457 (1995)	
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		FREIREICH, Emil J., et al., "Quantitative Comparison of Toxicity of Anticancer Agents in Mouse, Rat, Hamster, Dog, Monkey, and Man," <i>Cancer Chemotherapy Reports</i> , 50 (4): 219-244 (1996)	
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Examiner Signature	/Charanjit Aulakh/	Date Considered	05/06/2008
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete If Known

Application Number	10/510,459
Filing Date	October 4, 2004
First Named Inventor	Wen-Cheng Lee
Art Unit	
Examiner Name	
Attorney Docket Number	124269/00006/00073

Sheet 12 of 13

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T‡
		LIVERTON, Nigel J., et al., "Design and Synthesis of Potent, Selective, and Orally Bioavailable Tetrasubstituted Imidazole Inhibitors of p38 Mitogen Activated Protein Kinase," <i>Journal of Medicinal Chemistry</i> , 42: 2180-2190 (1999)	
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		MASSAGUÉ, Joan, "TGF- β Signal Transduction," <i>Annual Review Biochem. Med.</i> 67: 773-791 (1998)	
		MASSAGUÉ, Joan, "The Transforming Growth Factor- β Family," <i>Annual Review Cell. Biol.</i> , 6: 594-641 (1990)	
		MATSUSE, Takeshi, et al., "Expression of Immunoreactive Activin A Protein in Remodeling Lesions Associated with Interstitial Pulmonary Fibrosis," <i>American Journal of Pathology</i> , 148 (3): 707-713 (1996)	
		MATSUSE, Takeshi, et al., "Expression of Immunoreactive and Bioactive Activin A Protein in Adult Murine Lung After Bleomycin Treatment," <i>American Journal of Respiratory Cell and Molecular Biology</i> , 13: 17-24 (1995)	
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		MUNZ, Barbara, et al., "Overexpression of Activin A in the Skin of Transgenic Mice Reveals New Activities of Activin in Epidermal Morphogenesis, Dermal Fibrosis and Wound Repair," <i>The EMBO Journal</i> , 18 (19): 5205-5215 (1999)	
		PAWLOWSKI, John E., et al., "Stimulation of Activin A Expression in Rat Aortic Smooth Muscle Cells by Thrombin and Angiotensin II Correlates with Neointimal Formation in Vivo," <i>J. Clin. Invest.</i> 100 (3): 639-648 (1997)	
		PICON, Antonio, et al., "A Subset of Metastatic Human Colon Cancers Expresses Elevated Levels of Transforming Growth Factor β 1," <i>Cancer Epidemiology Biomarkers & Prevention</i> , 7: 497-504 (1998)	
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		ROBERTS, A. B. and Sporn M. B., "The Transforming Growth Factor- β s," <i>Peptide Growth Factors and Their Receptors</i> 95: 419-472 Berlin: Springer-Verlag (1990)	
		ROBERTS, Anita B. and SPORN Michael B., "Physiological Actions and Clinical Applications of Transforming Growth Factor- β (TGF- β)," <i>Growth Factors</i> 8: 1-9 (1993)	
		ROSENDAHL, Alexander, et al., "Activation of the TGF- β /Activin-Smad2 Pathway During Allergic Airway Inflammation," <i>American Journal of Respiratory Cell and Molecular Biology</i> , 25: 60-68 (2001)	
		SUGIYAMA, Motoya, et al., "Expression of Activin A is Increased in Cirrhotic and Fibrotic Rat Livers," <i>Gastroenterology</i> , 114: 550-558 (1998)	
		XU, Shiwen, et al., "Scleroderma-Derived Human Fibroblasts Retain Abnormal Phenotypic and Functional Characteristics Following Retroviral Transduction with the SV40 tsT Antigen," <i>Experimental Cell Research</i> , 220: 407-414 (1995)	

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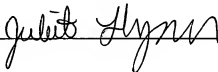
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